Material Safety Data Sheet

Classified as Hazardous according to the criteria of EU Annex 1 and ${\tt NOHSC}$.

1 - Product and Company Information

Product Name Product Number	HEPTANOIC ACID, 96% 146870		
Company	Sigma-Aldrich Pty. Ltd. 12 Anella Avenue Castle Hill NSW 2154		
Technical Phone # Fax Emergency Phone #	+61 2 9841 0555 (1800 800 097) +61 2 9841 0500 (1800 800 096) +44 8701906777 (1800 448 465)		

2 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
			Index Number
HEPTANOIC ACID	111-14-8	203-838-7	607-196-00-2

Formula C7H14O2 Molecular Weight 130.19 AMU

Synonyms Enanthic acid * Enanthylic acid * n-Heptoic acid * Heptylic acid * n-Heptylic acid * Hexacid C-7

* 1-Hexanecarboxylic acid * Oenanthic acid *

Oenanthylic acid

3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Causes burns.

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Do not induce vomiting.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator. Hand Protection: Compatible chemical-resistant gloves. Eye Protection: Chemical safety goggles. Special Protective Measures: Faceshield (8-inch minimum).

9 - Physical and Chemical Properties

Color: Colorless Appearance Form: Clear liquid At Temperature or Pressure Property Value N/AрН BP/BP Range 112 - 114 °C 10 mmHg

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MP/MP Range
                        -7.5 °C
Flash Point
                        113 °C
                                           Method: closed cup
Flammability
                        N/A
Oxidizing Properties N/A Explosive Properties
Explosion Limits
                        Lower: 1.1 %
                        Upper: 10.1 %
Vapor Pressure
                        < 0.1 mmHg
                                             20 °C
                        0.917 \text{ g/cm}3
SG/Density
Partition Coefficient Log Kow: 2.42
                        3.4 Pas
                                             30 °C
Viscosity
Vapor Density
                        4.5 \, \text{g/l}
Saturated Vapor Conc. N/A
Evaporation Rate
                        N/A
Bulk Density
                        N/A
Decomposition Temp.
                        N/A
Solvent Content
                        N/A
Water Content
                        N/A
Surface Tension
                        N/A
Conductivity
                        N/A
Miscellaneous Data
                       N/A
Solubility
                        Other Solvents: WATER (3G/L, 20°C), ETHANOL
                        ETHYL ETHER, CHLOROFORM
10 - Stability and Reactivity
STABILITY
   Stable: Stable.
   Materials to Avoid: Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS
   Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.
HAZARDOUS POLYMERIZATION
   Hazardous Polymerization: Will not occur
11 - Toxicological Information
RTECS NUMBER: MJ1575000
ACUTE TOXICITY
   LD50
   Oral
   Rat
   7000 mg/kg
   LD50
   Oral
   Mouse
   6400 mg/kg
   LD50
   Intravenous
   Mouse
   1200 MG/KG
   Remarks: Behavioral: Convulsions or effect on seizure threshold.
SIGNS AND SYMPTOMS OF EXPOSURE
   Material is extremely destructive to tissue of the mucous
   membranes and upper respiratory tract, eyes, and skin.
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Inhalation may result in spasm, inflammation and edema of the larynxand bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

ROUTE OF EXPOSURE

Skin Contact: Causes burns.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes burns.

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful

Ingestion: May be harmful if swallowed.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

UN#: 3265 Class: 8 PG: II

Proper Shipping Name: Corrosive liquid, acidic,

organic, n.o.s.

IMDG

UN#: 3265 Class: 8 PG: II

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC,

ORGANIC, N.O.S. Marine Pollutant: No

Severe Marine Pollutant: No

Technical Name: Required

IATA

UN#: 3265 Class: 8

Proper Shipping Name: Corrosive liquid, acidic,

organic, n.o.s.

Inhalation Packing Group I: No

Technical Name: Required

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES ANNEX I INDEX NUMBER: 607-196-00-2

INDICATION OF DANGER: C Corrosive.

R-PHRASES: 34 Causes burns.

S-PHRASES: 26 28 36/37/39 45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap-suds. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

COUNTRY SPECIFIC INFORMATION

Germany WGK: 1

16 - Other Information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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